Atty. Docket No. 7372/88139

Preliminary Amendment New 371 Patent Application

Amendments to the Claims:

This listing of claims replaces any and all prior claim lists.

Listing of Claims:

Claim 1 (original). A method for manufacturing a compound semiconductor epitaxial

substrate comprising a step of epitaxially growing an InGaAs layer on an InP single crystal

substrate or on an epitaxial layer lattice-matched to the InP single crystal substrate under

conditions of

ratio of V/Ш: 10 - 100,

growth temperature: 630°C - 700°C, and

growth rate: $0.6 \mu m/h - 2 \mu m/h$.

Claim 2 (original). The method according to claim 1, wherein the InP single crystal

substrate has a plane direction accuracy of ±0.05° in the (100).

Claim 3 (currently amended). The method according to claim 1- or 2 claim 1, wherein

the epitaxially growing is carried out by using MOCVD metal-organic chemical vapor

deposition (MOCVD).

Claim 4 (currently amended). The method according to any of claims 1-3 claim 1,

wherein gallium raw material used for the epitaxially growing of the InGaAs layer includes

use of gallium raw material is selected from the group consisting of trimethyl gallium and

triethyl gallium.

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Claim 5 (currently amended). The method according to any of claims 1-4 claim 1,

wherein indium raw material used for the epitaxial growing of the InGaAs layer includes use

of indium raw material is comprising trimethyl indium.

Claim 6 (currently amended). The method according to any of claims 1-5 claim 1,

wherein the epitaxial growing of the InGaAs layer includes use of arsenic raw material is

comprising arsine.

Claim 7 (original). A method for reducing concave defects in a compound

semiconductor epitaxial substrate comprising a step of epitaxially growing an InGaAs layer

on an InP single crystal substrate or on an epitaxial layer lattice-matched to the InP single-

crystal substrate under conditions of

ratio of V/Ш: 10 to 100,

growth temperature: 630°C - 700°C, and

growth rate: $0.6 \mu m/h - 2 \mu m/h$.

Claim 8 (currently amended). A compound semiconductor epitaxial substrate

obtained by using the method according to any of claims 1.

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